



**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Complete if Known

Application Number	10/018,892
Filing Date	August 6, 2002
First Named Inventor	Hwei-Sing Kwang
Group Art Unit	1641 1645
Examiner Name	

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of

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Attorney Docket Number 2977-112

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
VB	AA	5,510,241		Thorns	04-23-1996

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office ³ Code	Number ⁴	Kind ⁵ (if known)			
VB	AB	WO	92/06197	A1	The Minister for Agriculture, Fisheries and Food in her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland.	04-16-1992	
	AC	WO	98/03656	A1	Regents of the University of Minnesota	01-29-1998	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.



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First Named Inventor Hwei-Sing Kwang
Group Art Unit 1641
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Sheet 2 of 3

Attorney Docket Number 2977-112

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
AD		Barrow, P.A., "Serological diagnosis of <i>Salmonella</i> serotype <i>enteritidis</i> infections in poultry by ELISA and other tests," <i>International Journal of Food Microbiology</i> , 21(1994): 55-68, Elsevier Science B.V.	
AE		Van Asten, A.J.A.M. et al., "Identification of the Domain Which Determines the g,m Serotype of the Flagellin of <i>Salmonella enteritidis</i> ," <i>Journal of Bacteriology</i> , Mar, 1995, pp. 1610-1613, Vol. 177, No.6. American Society for Microbiology.	
AF		Rajashekara, Gireesh et al., "Application of Recombinant Fimbrial Protein for the Specific Detection of <i>Salmonella enteritidis</i> Infection in Poultry," <i>Diagn Microbiol Infect Dis</i> , 1998, 32:147-157. Elsevier Science Inc., New York, NY.	
AG		McDonough, Patrick L., et al., "Interpretations of Antibody Response to <i>Salmonella enterica</i> Serotype Enteritidis gm Flagellin in Poultry Flocks Are Enhanced by a Kinetics-Based Enzyme-Linked Immunosorbent Assay," <i>Clinical and Diagnostic Laboratory Immunology</i> , July 1998, pp. 550-555, Vol. 5, No. 4. American Society for Microbiology.	
AH		Gast, Richard K., et al., "Assessing the Sensitivity of Egg Yolk Antibody Testing for Detecting <i>Salmonella enteritidis</i> Infections in Laying Hens," <i>Poultry Science</i> (June 1997) 76(6): 798-801	
AI		Gast, Richard K., "Applying Tests for Specific Yolk Antibodies to Predict Contamination by <i>Salmonella enteritidis</i> in Eggs from Experimentally Infected Laying Hens," <i>Avian Diseases</i> , 41:195-202, Jan-Mar, 1997.	
AJ		Thorns, Christopher J., "Development and Application of Enzyme-Linked Immunosorbent Assay for Specific Detection of <i>Salmonella enteritidis</i> Infections in Chickens Based on Antibodies in SEF14 Fimbrial Antigen," <i>Journal of Clinical Microbiology</i> , Apr. 1996, pp. 792-797, vol. 34, no. 4. American Society for Microbiology.	
AK		Sachsenweger O., et al., "Evaluation of three commercial ELISA test kits for the detection of antibodies against <i>Salmonella enteritidis</i> ." <i>Tierarzt Prax</i> , August 1994, 22(4): 350-7. ABSTRACT.	
AL		Timoney, J.F., et al., "Detection of antibody to <i>Salmonella enteritidis</i> by a gm flagellin-based ELISA," <i>Veterinary Record</i> (August 18, 1990) 127(7):168-9.	
AM		Sojka, MarcJanna G et al., "Characterisation of epitopes of type 1 fimbriae of <i>Salmonella</i> using monoclonal antibodies specific for SEF21 fimbriae of <i>Salmonella enteritidis</i> , <i>Veterinary Microbiology</i> , 59(1998), pp. 157-174. Elsevier Science B.V.	

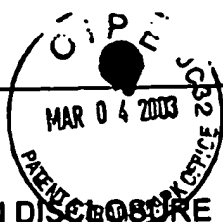
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Examiner Name	

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Sheet	3	of	3	Attorney Docket Number	2977-112
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✓	AN	Clouther, S.C., et al., "Unique fimbrae-like structures encoded by <i>sefD</i> of the SEF14 fimbriae gene cluster of <i>Salmonella enteritidis</i> ," <i>Molecular Microbiology</i> (1994), 12(6), 893-903.	✓
	AO	Van Zuderveld, et al., "Comparison of Four Different Enzyme-Linked Immunosorbent Assays for Serological Diagnosis of <i>Salmonella enteritidis</i> Infections in Experimentally Infected Chickens," <i>Journal of Clinical Microbiology</i> , Oct. 1992, pp. 2560-2566, Vol. 30, No.10. American Society for Microbiology.	✓
	AP	Lin, Althema Wen-Chuan et al., "Salmonella enteritidis-Specific Monoclonal Antibodies," <i>Avian Diseases</i> , 36:455-458, 1992.	✓
	AQ	Turcotte, Claude et al., "Cloning, DNA nucleotide sequence and distribution to the gene encoding the SEF14 fimbrial antigen of <i>Salmonella enteritidis</i> ," <i>Microbiology</i> , 1993, 139:1477-1485. Great Britain.	✓
	AR	Nicholas, R.A.J., et al., "Development and application of an ELISA for detecting antibodies to <i>Salmonella enteritidis</i> in chicken flocks," <i>The Veterinary Record</i> , January 26, 1991, pp. 74-76.	✓
	AS	Masten, Barbara J. et al., "Molecular Analyses of the <i>Salmonella</i> g ... Flagellar Antigen Complex," <i>Journal of Bacteriology</i> , September 1993, vol. 175, no. 17, pp. 5359-5365. American Society for Microbiology	✓
✓	AT	Cooper, G.L., et al., "Evaluation of SEF14 fibrial dot blot and flagellar Western blot tests as indicators of <i>Salmonella enteritidis</i> infection in chickens," <i>The Veterinary Record</i> , February 17, 1996, pp. 149-153, vol. 138.	✓

Examiner Signature		Date Considered	7/6/03
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INTERNATIONAL SEARCH REPORT

International Application No

PCT/SG 99/00061

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/10 C07K14/255

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	<p>WO 98 03656 A (RAJASHEKARA GIREESH ;KAPUR VIVEK (US); UNIV MINNESOTA (US); NAGARA) 29 January 1998 (1998-01-29) page 3, line 14 - line 22</p> <p>page 5, line 20 - line 25 page 17, line 4 - line 30; claims 1,4,10</p> <p style="text-align: center;">-/-</p>	<p>1-3,5, 16,17,23</p> <p>6,14,15, 18,23</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *S* document member of the same patent family

Date of the actual completion of the international search

22 May 2000

Date of mailing of the international search report

13. 06. 2000

Name and mailing address of the ISA

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Gundlach, B

INTERNATIONAL SEARCH REPORT

International Application No

PCT/SG 99/00061

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>ASTEN VAN A J A M ET AL: "IDENTIFICATION OF THE DOMAIN WHICH DETERMINES THE G,M SEROTYPE OF THE FLAGELLIN OF SALMONELLA ENTERITIDIS"</p> <p>JOURNAL OF BACTERIOLOGY,US,WASHINGTON, DC, vol. 177, no. 6, 1 March 1995 (1995-03-01), pages 1610-1613, XP002069554</p> <p>ISSN: 0021-9193</p> <p>page 1613, column 1, line 14 - line 16; figure 1</p>	1-4, 7-17, 19-34
Y	<p>BARROW P A: "SEROLOGICAL DIAGNOSIS OF SALMONELLA SEROTYPE ENTERITIDIS INFECTIONS IN POULTRY BY ELISA AND OTHER TESTS"</p> <p>INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY,NL,ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, vol. 21, no. 1/02, 1 January 1994 (1994-01-01), pages 55-68, XP000198428</p> <p>ISSN: 0168-1605</p> <p>cited in the application</p> <p>the whole document</p>	1-4, 7-17, 19-34
A	<p>COOPER G L ET AL: "EVALUATION OF SEF14 FIMBRIAL DOT BLOT AND FLAGELLAR WESTERN BLOT TEST AS INDICATORS OF SALMONELLA ENTERITIDIS INFECTION IN CHICKENS"</p> <p>VETERINARY RECORD,GB,LONDON, vol. 138, no. 7, 17 February 1996 (1996-02-17), pages 149-153, XP000198431</p> <p>ISSN: 0042-4900</p> <p>page 152, column 2, paragraph 3 -page 153, column 1, paragraph 1</p> <p>page 149, column 2, paragraph 3</p>	1-34
A	<p>GAST, R.K. ET AL.: "Assessing the Sensitivity of Egg Yolk Antibody Testing for Detecting Salmonella Enteritidis Infections in Laying Hens."</p> <p>POULTRY SCIENCES, vol. 76, 1997, pages 798-801, XP000909155</p> <p>the whole document</p>	1-4, 7-17, 19-34
A	<p>GAST, R.K. ET AL.: "Applying Tests for Specific Yolk Antibodies to Predict Contamination by Salmonella enteritidis in Eggs from Experimentally Infected Laying Hens"</p> <p>AVIAN DISEASES, vol. 41, 1997, pages 195-202, XP000910421</p> <p>the whole document</p>	1-4, 7-17, 19-34
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